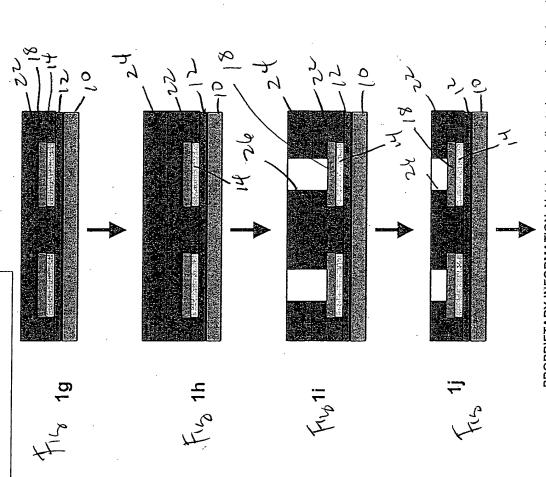


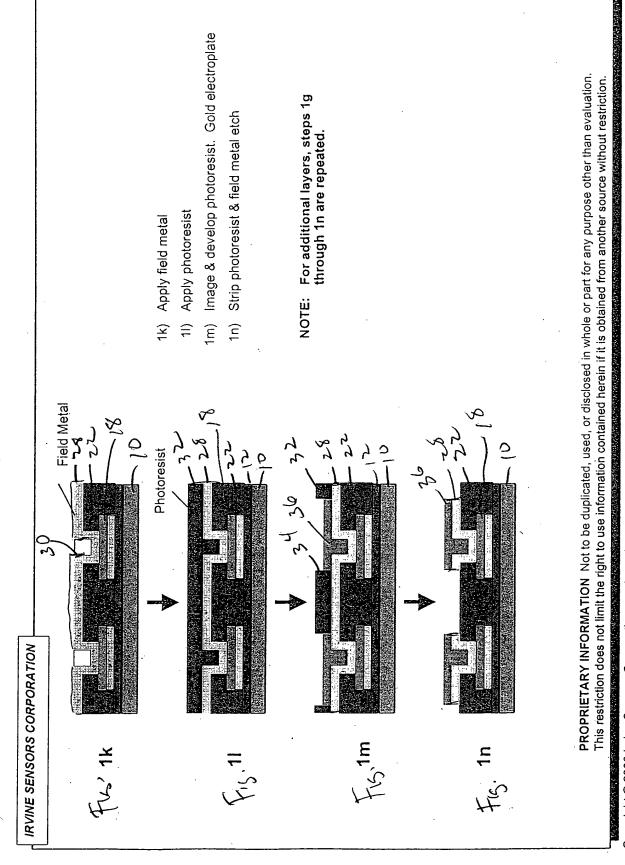
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- 1g) Apply polyimide
- 1h) Apply photoresist
- Image & develop photoresist & polyimide
- Strip photoresist & cure polyimide

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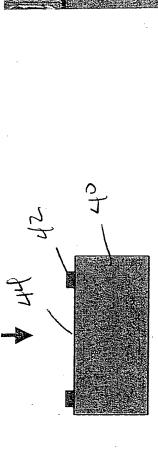


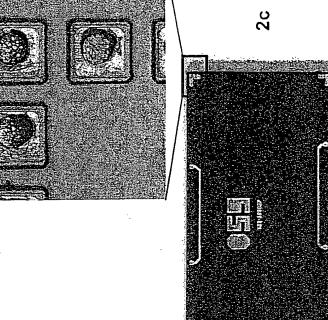
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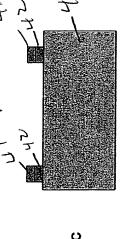
#### Solder Bumping Of Die

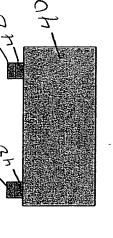


- 2a) Retrieve die
- 2b) Apply underbump metalurgy
- 2c) Apply solder bump







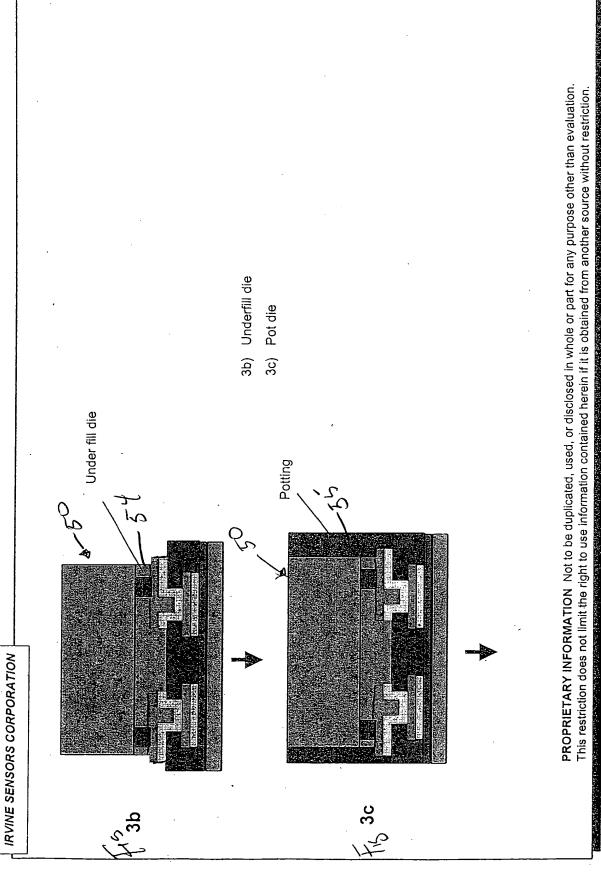


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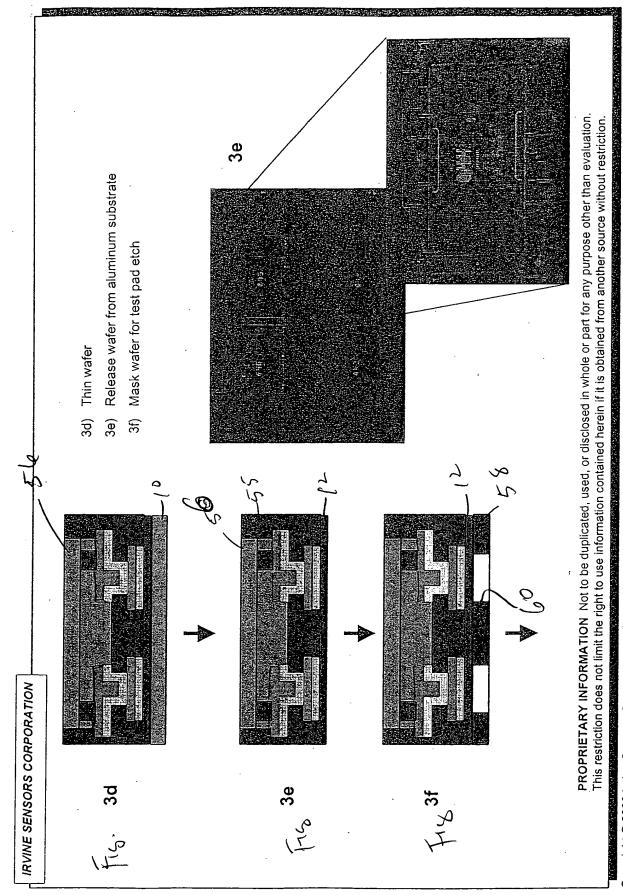
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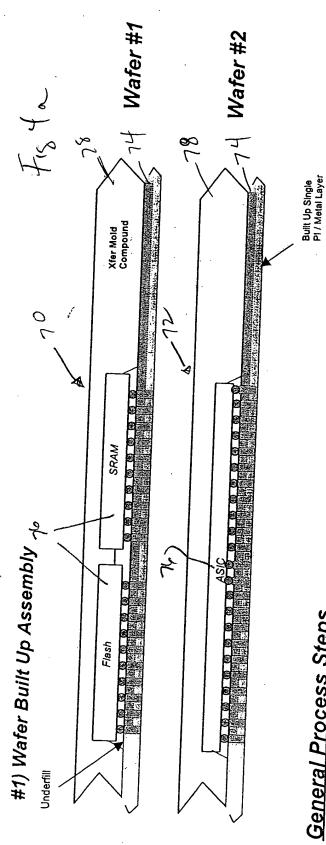


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3g) Etch polyimide to expose test pads 3h) Remove etch mask & test wafer 3i) Dice wafer IRVINE SENSORS CORPORATION F15 3h

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# High Volume Reverse NEO Process



General Process Steps

- 1) Screen Print Electrically Conductive Epoxy on Built-Up Laminate Substrates
  - Place Flip Chip Devices
    - Cure Epoxy
- 4) Underfill Devices
- 5) Xfer. Mold Devices



# High Volume Reverse NEO Process

2) Stacked Wafer Strip Assembly

### General Process Steps

6) Release Carrier Film from Substrate (ال Required)

SRAM

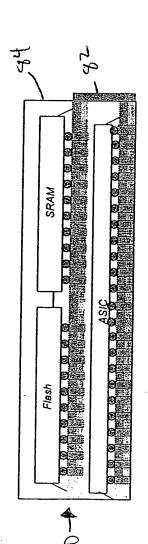
Flash

- 7). Attach Memory and ASIC Wafers
  - # 8) Cut/Saw Wafers to Strips

人(い) 3) Stacked Wafer Strip Assembly

### General Process Steps

 Interconnect or Bus Wafers by Metallizing Wafer Stacks





# High Volume Reverse NEO Process

### General Process Steps

4) Thinned and Sawed Assembly

 $7^{\mathcal{O}}$  10) Thin Stack Assembly

## 5) Thinned and Sawed Assembly

Flash 7 8

### General Process Steps

11) Solder Bump Stack12) Singulate (Saw) into Individual Stacks

